Daksh Pokar

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EDUCATION

University of Illinois, Urbana-Champaign   Champaign, IL
Masters in *Computer Science*   Jan 2024 - *Present*
Relevant Coursework: *Database Systems, Applied Machine Learning, Cloud Computing Applications*

University of Pune — *Pune Institute of Computer Technology*   Pune, India
Bachelors in *Computer Engineering* — GPA: 3.96   Aug 2016 - May 2020
Relevant Coursework: *Data Structures & Algorithms, Computer Architecture, Computer Networks etc.*

WORK EXPERIENCE

Shipsy (A Sequoia & Info Edge backed startup) (shipsy.io) (App Link)   Gurgaon, India
Senior Software Engineer, L3   Nov 2020 – Dec 2023

- Lead Full-Stack Developer for Booking SmartApp, which is the only direct-to-consumer (D2C) app at Shipsy. It has achieved over One Million downloads on both the Play Store and App Store.
- Revamped the app by strategically refactoring it with Clean Architecture Principles and **Flutter BLoC** framework, achieving a remarkable **97% reduction** in crashes. Simultaneously, boosted user engagement and daily active users (DAUs) by **3x**.
- Attained response times below **100 milliseconds** for Multiple REST APIs through strategic reorganization of PostgreSQL queries, integration of indexes, and implementation of caching mechanisms.
- Successfully delivered, managed and monitored over **50+ releases** during my tenure.
- Developed a Push Notification Service in Python and a simple Frontend **ReactJS** app for PMs to trigger notifications which improved conversions by **40%** and nearly **2x** DAUs.
- Eliminated the need for separate Web & Mobile App by using **Flutter** framework.
- Implemented **CI/CD** via Jenkins, deploying a **Docker** Container on **AWS EC2**. This container hosts a straightforward Express Server that serves the web app of the Booking SmartApp.

PROJECTS

Drop A Doc (Play Store Link**) (**YouTube Promo Link**)**   Aug 2019 - Aug 2020
- Drop A Doc is a document-organizing app devised in **Android** that automatically categorizes your document into various categories and extracts key-entities based on category.
- Increased Accuracy of key-entities extraction model to **92%** by using **LSTM** based approach.
- Reduced the processing time by about **94%** & cost by **91%** by optimizing processing using On-Device OCR.
- Implemented a **Django** backend, leveraging a robust **Postgres** database, to support **1000+** daily users.

Signature Verification (YouTube Demo Link**)**   Sep 2018 - Dec 2018
- A system to recognize whether signatures are forged or real, specifically for signatures on bank checks.
- Built a **Deep Convolutional Neural Network** adhering to Siamese Neural Network Architecture using **Keras**.
- Created a customized pre-processing pipeline using **OpenCV** and deployed backend using **Django**.

SKILLS

- **Programming Languages:** Python, C++, Java, Dart, SQL, JavaScript, HTML, TypeScript
- **Frameworks & Toolkits:** Django, MongoDB, LoopbackJS, NestJS, Flutter, ReactJS, PostgreSQL, ReactNative, PyTorch, Keras, Android, Flutter BLoC Framework, MySQL, ElasticSearch
- **Other Technical Skills:** Git, JIRA Workflow, Docker, Jenkins, Flask, Figma, AWS ECS, REST

ACTIVITIES

- Instructed **100+** undergraduates and industry professionals in **Machine Learning and Artificial Intelligence** fundamentals, building a **Deep Convolutional Neural Network** model from scratch in **Keras**.
- Designed and launched the **Android** app for ACM's premier event, Pulzion '17, achieving over **500+** downloads. (App Link)